Greetings, and welcome to HL7’s 24th Annual Plenary and Working Group Meeting, where our theme is the future of healthcare using genomics as a key tool.

Our own Clinical Genomics Work Group sums up the importance of this topic very well: “It is envisioned that the use of genomic data in healthcare practice will become ubiquitous.” In fact, it is hard to imagine a field having broader implications to patient care, whether it is disease prediction, drug safety, disease management, preventive care, etc.

Interoperability standards are a prerequisite for enabling the interrelation of clinical and genomic data at the individual level. We have an evolving suite of clinical genomics specifications related to pedigree (family history), genotype, and genetic variation. These standards must account for the potentially voluminous data; the rapidly evolving science; the complexity of the data where not only DNA sequences but also SNPs (Single Nucleotide Polymorphisms), annotations, gene expressions, and protein translations need representation; parallel efforts to standardize genetic information; the need to correlate genetic and clinical information; and more.

I hope you’ll find this year’s plenary session informative. We are fortunate to have experts in various aspects of the clinical genomics field speaking to us about a broad range of topics, from the growing relevance of genetics in healthcare, to HL7’s work in standardizing this domain, to the translation of genetics based research from bench to bedside.

With clinical genomics comes a whole new vocabulary—DNA, RNA, allele, base pairs, genetic locus, SNPs, etc. But clinical genomics doesn’t need to be complex. As one of my children told me years ago—to tell the sex of a chromosome, you simply pull down its genes.

Have an enjoyable and productive Working Group Meeting.

Robert (Bob) H. Dolin, MD
Chair of the Board, 2010-2011, Health Level Seven International
Future of Healthcare Using Genomics as a Key Tool
Monday, October 4, 2010 • 8:30 am – 12:30 pm

PROGRAM AGENDA

8:30–8:45am  Welcoming Comments  
Charles Jaffe, MD, PhD, CEO, Health Level Seven International

8:45–9:30am  Keynote Session 1: Implementation of Personalized Medicine  
Raju Kucherlapati, PhD, Director of Partners Center for Personalized Genetic Medicine, Professor of Genetics, Harvard Medical School

9:35–10:20am  Keynote Session 2: Clinical Assessment through Family Health History  
Kevin S. Hughes, MD, FACS, Surgical Director, Breast Screening, Co-Director, Avon Comprehensive Breast Evaluation Center, Massachusetts General Hospital; Associate Professor of Surgery, Harvard Medical School; Medical Director, Bermuda Cancer Genetics and Risk Assessment Clinic

10:20–10:50am  Break

10:55–12:30am  Panel Presentation

Structuring Genetic Lab Results, a Foundational Element for Personalized and Translational Medicine  
Mollie Ullman-Cullere MS, MSE, Senior BioMedical Informaticist, Clinical Research Informatics, Dana-Farber Cancer Institute

Genomics in Clinical Research  
Joyce Hernandez, Manager, Global Data and Information Standards, Merck Research Labs

Using HL7 Clinical Genomics Standards in a Genome-Wide Association Study on Hypertension  
Amnon Shabo, PhD, IBM Research Lab, Haifa University

Program agenda subject to change.

HL7 and the Final Rule: Health Information Technology: Initial Set of Standards, Implementation Specifications, and Certification Criteria for Electronic Health Record Technology
Now offering CME credit!
Monday, October 4, 2010 • 1:45 – 5:00 pm • 3 CME Credits

This session provides an overview of how HL7 will be used to achieve Meaningful Use and then provides high-level tutorials on HL7’s Clinical Document Architecture (CDA), Continuity of Care Document (CCD) and its Version 2 standards, which are named in the Final Rule referenced in the session title.

This Tutorial Will Benefit:
Individuals who will be required to understand HL7’s role in meaningful use and electronic health record technology.

Upon Completion of This Tutorial, Students Will Know:
• How to use HL7 to achieve Meaningful Use
• How to use the HL7 CDA standard and the CCD Implementation Guide
• How to use HL7’s Version 2 standards for submission to Public Health Agencies for surveillance reporting
• How to use HL7’s Version 2 standards for submission of lab reporting to Public Health Agencies
• How to use HL7’s Version 2 standards for submission to immunization registries

Prerequisites:
• None

Tools Needed:
• Please bring a laptop to the course

Faculty:
Gora Datta (Speaker – HL7 and Meaningful Use): Chairman and CEO, CAL2CAL Corporation
Keith Boone (Speaker – HL7’s CDA and CCD Standards): Lead Interoperability Systems Designer, GE Healthcare Integrated IT Solutions; Co-Chair, HL7 Clinical Document Architecture Work Group
Alean Kirnak (Speaker – HL7 Version 2 and Immunization): American Immunization Registry Association (AIRA); Co-Chair, HL7 Public Health and Emergency Response Work Group
Anna Orlova (Co-Speaker – HL7 Version 2 and Surveillance): Executive Director, Public Health Data Standards Consortium
Lori Reed-Fourquet (Co-Speaker – HL7 Version 2 and Surveillance): Owner/Consultant, e-HealthSign, LLC
Austin Kreisler (Speaker – HL7 Version 2 and Electronic Lab Reporting): HL7 Messaging Specialist, SAIC; Co-Chair, HL7 Orders & Observations Work Group; Co-Chair, HL7 Domain Experts Steering Division; Member, HL7 Technical Steering Committee

Program agenda subject to change.
HL7 working group meetings are held three times per year at varying locations. These working group meetings serve two important purposes: 1) They give the HL7 work groups a chance to meet face-to-face to work on the standards; 2) They provide an invaluable educational resource for the healthcare IT community.

Standards Development
HL7 has more than 40 work groups dedicated to specialized areas of interest such as Orders and Observations and Electronic Health Records. These work groups are directly responsible for the content of the standards and spend much of their time at the working group meetings hard at work on standards development. Attending a work group meeting is a great way to learn more about what’s happening in a particular area, so please feel free to participate in any meeting that interests you.

EDUCATION TRACKS

HL7 has organized its courses into four tracks to make it easier to choose the educational offerings that are right for you:

Track 1 – Version 2 Core
HL7 Version 2 is the world’s most successful healthcare interoperability standard. Originally developed in the late 1980s, it has been continually enhanced over time. The introductory tutorials familiarize students with the Version 2 messaging standard and its core domain areas, while the implementation classes provide the “how to” basics of implementation. The track also includes courses that cover conformance and profiles and XML for Version 2.

Track 2 – Version 3 Core
HL7 Version 3 is HL7’s new flagship standard, adopted by major healthcare organizations, such as the NHS in England. This track is designed to give the attendee a thorough introduction to the Version 3 family of standards. It covers Version 3 fundamentals, the Reference Information Model, messaging, documents (Clinical Document Architecture), messaging infrastructure (wrappers, transport), and the XML Implementation Technology specification. It concludes with classes that address strategies for implementation.

Track 3 – HL7 Special Topics
The Special Topics track offers a variety of electives that describe important HL7 standards that may not fall in either the Version 2 or Version 3 family. These include HL7 standards for electronic health records (EHR), visual integration (CCOW), security and medical logic (Arden Syntax). The Special Topics track also offers advanced or specialized classes in Version 2 or Version 3 subjects which are not considered part of the basic core offerings. Examples include classes in Version 2 and Version 3 tooling, and domain classes such as clinical genomics.

Track 4 – Information Forums **FREE**
This track provides tutorials designed to support new member involvement, and help existing members become more effective in their participation in the HL7 standards development process. Tutorials included in this track are tutorials such as the first timers’ orientation, introduction to HL7 organization and process, and co-chair training.

These tracks are only suggested course groupings. Feel free to choose whatever courses you feel are right for you from among the four tracks.

Please see pages 17-19 for a complete schedule of meeting times throughout the week.

Educational Sessions
This working group meeting will offer numerous educational opportunities. Sessions will cover a full range of HL7-specific topics such as Version 2.x Implementation, Version 3, and the Clinical Document Architecture (CDA), among others. Educational sessions also branch out to cover general interest industry topics such as the Electronic Health Record, Clinical Decision Support and Vocabulary Terminology. HL7 also now offers CME credit on a number of tutorials. For a full listing of course descriptions, please see pages 6-13.

GS1 EDUCATION SESSION

GS1 Education Session
Wednesday, October 6, 2010 • 7:00 – 7:45 am
GDSN is a GS1 tool to populate product information in networked catalogues for supply chain and regulatory purposes. Presenters will be Christian Hay (GS1 Healthcare) and Brad Pedrow (GS1 US).

HL7 ACTIVITIES WITH OTHER SDOs

HL7 Activities With Other SDOs
Sunday, October 3, 2010 • 3:30 – 5:00 pm
This session is an opportunity for HL7 WGM attendees to review and provide comments on activities in collaboration with other Standards Development Organizations (SDOs) such as Integrating the Healthcare Enterprise (IHE), Object Management Group (OMG), and the Joint Working Group (JWG) liaison to the Joint Initiative Council (JIC).

HL7 RESEARCH & INNOVATIONS WORKSHOP

HL7 Research & Innovations Workshop
Monday, October 4, 2010 • 1:45 – 5:00 pm
Due to the success of this workshop at the January and May Working Group Meetings, another has been scheduled for the October Menary and Working Group Meeting in Cambridge, MA. This TSC-hosted workshop will explore how new ideas can more effectively be introduced to HL7 International and incubated prior to a formal standards development project starting. This may include help identifying the relevant work groups, help engaging with stakeholders and finding project funding.
**SATURDAY, OCTOBER 2**

9:00–5:00pm TSC Meeting

**SUNDAY, OCTOBER 3**

9:00–3:00pm HL7 International Council Meeting
9:00–3:00pm Architectural review Board (ArB)
1:45–3:00pm Vocabulary (Voc) Facilitators’ Roundtable
1:45–3:00pm Modeling & Methodology (MnM) Meeting
3:00–6:00pm REGISTRATION
3:30–5:00pm Migration to New Publishing/Modeling Tools (Facilitators Only) – FREE TUTORIAL
4:00–5:00pm HL7 First-Time Attendees’ Orientation – FREE TUTORIAL
5:00–6:00pm HL7 Organization & Process Orientation/Introduction – FREE TUTORIAL
7:00 – 9:00pm TSC Meeting

**MONDAY, OCTOBER 4**

7:00–8:00am HL7 First-Time Attendees’ Orientation – FREE TUTORIAL
7:00–5:00pm REGISTRATION
7:30–8:30am Continental Breakfast
8:30–12:30pm Plenary Meeting
10:20–10:50am Morning Break
12:30–1:30pm Lunch – First-Time Attendees’ Q & A reserved tables
12:30–1:30pm Lunch – Co-Chair reserved tables
1:45–5:00pm Working Group Meetings
1:45–5:00pm Ambassador Presentations
1:45–5:00pm HL7 Research & Innovations Workshop
1:45–5:00pm Clinical Decision Support: HL7 Standards & Practical Applications
1:45–5:00pm Introduction to Electronic Health Record
1:45–5:00pm Standards for Interoperability
3:00–3:30pm Afternoon Break
5:15–7:00pm Co-Chairs Dinner/Meeting (Must sign up)
6:00–8:00pm Open Space Meetings – Self Organized (no A/V)
7:00–8:00pm TSC Meeting

**TUESDAY, OCTOBER 5**

7:00–8:00am HL7 Meeting for Nurses
7:00–8:00am Continental Breakfast
7:00–8:00am HL7 Organization & Process Orientation/Introduction – FREE TUTORIAL
7:00–5:00pm REGISTRATION
8:00–8:45am General Session – HL7 CEO, CTO, International Council and TSC Reports, Announcements
9:00–12:30pm Introduction to Version 2, Part 1: Control/Patient Administration
9:00–12:30pm Introduction to Version 3, Part 1: Fundamentals
9:00–12:30pm Introduction to the HL7 Services-Aware Interoperability Framework
9:00–5:00pm Working Group Meetings
10:30–11:00am Morning Break
12:30–1:30pm Lunch – First-Time Attendees’ Q & A reserved tables
12:30–1:30pm Lunch – Co-Chair reserved tables
12:30–1:30pm TSC Luncheon/Meeting
1:45–5:00pm Introduction to Version 2, Part 2: Orders and Observations
1:45–5:00pm Introduction to Version 3, Part 2: Messaging

**WEDNESDAY, OCTOBER 6**

7:00–7:45am GS1 Education Session
7:00–8:00am Continental Breakfast
7:30–5:00pm REGISTRATION
8:00–8:45am General Session – HL7 Annual Business Meeting, Awards Presentations, and Announcements
9:00–12:30pm Version 2 Message Profiles and Conformance
9:00–12:30pm Version 3 Data Types Release 2
9:00–12:30pm Introduction to Clinical Document Architecture
9:00–5:00pm Working Group Meetings
10:30–11:00am Morning Break
12:30–1:30pm Lunch – Project Facilitators’ Roundtable
1:45–5:00pm Version 2.5 / 2.6 Control Specialist Certification Exam Review
1:45–5:00pm Clinical Document Architecture Advanced
1:45–5:00pm Introduction to Vocabulary
3:00–3:30pm Afternoon Break
3:30–5:00pm Enterprise Architecture Update
5:15–7:15pm HL7 Networking Reception

**THURSDAY, OCTOBER 7**

7:00–7:45am Newly Elected Co-Chair Training – FREE TUTORIAL
7:00–8:00am Continental Breakfast
7:30–5:00pm REGISTRATION
8:00–8:45am General Session – Announcements
9:00–12:30pm CDA Specialist Certification Exam Review
9:00–12:30pm Version 3 RIM Certification Exam Review
9:00–12:30pm Security & Risk Analysis
9:00–5:00pm Working Group Meetings
10:30–11:00am Morning Break
12:30–5:00pm Affiliate Chair or Designated Rep Luncheon/Meeting (Must sign up)
1:45–5:00pm Continuity of Care Document
1:45–5:00pm Personal Health Record
1:45–5:00pm Migration to New Publishing/Modeling Tools – FREE TUTORIAL
1:45–5:00pm Architectural review Board (ArB)
3:00–3:30pm Afternoon Break
5:30–7:30pm Version 2.5 / 2.6 Control Specialist Certification Exam
5:30–7:30pm CDA Specialist Certification Exam
5:30–7:30pm Version 3 RIM Certification Exam
5:30–8:00pm Modeling & Methodology (MnM) Facilitators’ Roundtable

**FRIDAY, OCTOBER 8**

8:00–8:45am No General Session
8:00–9:00am Continental Breakfast
8:00–1:00pm Staff will be on hand for questions and assistance
9:00–5:00pm Working Group Meetings
10:30–11:00am Morning Break
12:30–1:30pm Lunch

Note: Tutorials appear in bold
Note: In compliance with our status as an ANSI-accredited standards developing organization, HL7 meetings are open.
CME Credit Sponsored through The American College of Physicians

Many of the tutorials, including the Ambassador presentations, offered at the 24th Annual Plenary and Working Group Meeting qualify for continuing medical education for physicians. This activity has been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education through the joint sponsorship of the American College of Physicians and Health Level Seven® International. The American College of Physicians is accredited by the ACCME to provide continuing medical education for physicians. The American College of Physician's designates the educational activity for a maximum number of 21 AMA PRA Category 1 Credits™. Physicians should only claim credit commensurate with the extent of their participation in the activity.

Upon Completion of This Tutorial, Students Will Know:

- Basic Order and Observation message structures
- Sample messages
- How to start to interpret the Version 2 Orders and Observation standards

Tools Needed:
- Please bring a laptop to the course

Faculty:
Mike Henderson: Co-Chair, HL7 Education Work Group; Principal Consultant, Eastern Informatics

W10 – Version 2 Message Profiles and Conformance
Wednesday, October 6 / 9:00 am – 12:30 pm

This course is designed to explore the concept of conformance within HL7 Version 2 as described in Chapter 2 of Version 2.5/2.6. Additionally, this tutorial will demonstrate how to apply message profiling to interoperability by improving clarity, simplifying implementations and streamlining testing. Participants will be introduced to tools that facilitate analysis and interoperability while, at the same time, fully documenting HL7 conformance.

This Tutorial Will Benefit:
- Anyone interested in HL7 interoperability

Upon Completion of This Tutorial, Students Will Know:

- How to measure conformance using messaging profiling
- How vendors can document their applications’ implementations
- How providers can improve their RFP results by using message profiling
- How to use message profiles developed for specific domains
- The tools available to facilitate HL7 Version 2.x conformance efforts (Messaging Workbench and the Global Profile Library)
- More about HL7 conformance certification
- How to develop HL7 conformance documentation for Version 2

Prerequisites:
- Working knowledge of HL7 or other EDI standards (ASTM, X12)

Tools Needed:
- Please bring a laptop to the course

Faculty:
AbdulMalik Shakir: Co-Chair, HL7 Education Work Group; Member, HL7 Architectural review Board; Principal Consultant, Shakir Consulting

W13 – Version 2.5 / 2.6 Control Specialist Certification Review
Wednesday, October 6 / 1:45 pm – 5:00 pm

This tutorial reviews the message definition, processing rules and data type definitions of the Control chapters of the HL7 Version 2.5 / 2.6 Standard. Upon completion of this tutorial, students will be better prepared to take the HL7 Version 2.5 / 2.6 Control Specialist Certification Exam.

Note: Students are also expected to prepare for the exam by previous study of Chapter 2 (Control), Chapter 2A (Data Types), and Chapter 2B (Conformance) of the HL7 Version 2.5 / 2.6 Standard.

This Tutorial Will Benefit:
- Anyone preparing for the HL7 Control Specialist Certification Exam
- Interface analyst specialists and managers who need to understand the technical aspects of HL7 interfaces
Health Level Seven International is pleased to offer certification testing on HL7 Version 2.5 / 2.6, Chapter 2: Control. Certification testing is offered to those industry participants who are expected to have a working knowledge of the HL7 Messaging Standard. Interface analysts, healthcare systems analysts, medical software programmers, and medical informatics faculty and students are all potential candidates. The knowledge required to pass the exam can be obtained by participation in the HL7 working group meetings, by attending HL7 education sessions, by field work dealing with HL7 interfaces, or simply by self-study of Chapter 2 and 2A of the HL7 Standard Version 2.5 / 2.6 (the standard may be obtained via HL7 membership or non-member purchase on www.HL7.org).

Note: Simply taking the courses offered at this meeting will most likely not be sufficient to pass the test. We strongly recommend a combination of the aforementioned to fully prepare yourself for the exam.

**Tools Needed:**
- Please bring a laptop to the course

**Faculty:**
*Mike Henderson: Co-Chair, HL7 Education Work Group; Principal Consultant, Eastern Informatics*

---

**TH21 – HL7 Version 2.5 / 2.6 Control Specialist Certification Exam**
**Thursday, October 7 / 5:30 pm – 7:30 pm**

Health Level Seven International is pleased to offer certification testing on HL7 Version 2.5 / 2.6, Chapter 2: Control. Certification testing is offered to those industry participants who are expected to have a working knowledge of the HL7 Messaging Standard. Interface analysts, healthcare systems analysts, medical software programmers, and medical informatics faculty and students are all potential candidates. The knowledge required to pass the exam can be obtained by participation in the HL7 working group meetings, by attending HL7 education sessions, by field work dealing with HL7 interfaces, or simply by self-study of Chapter 2 and 2A of the HL7 Standard Version 2.5 / 2.6 (the standard may be obtained via HL7 membership or non-member purchase on www.HL7.org).

Note: Simply taking the courses offered at this meeting will most likely not be sufficient to pass the test. We strongly recommend a combination of the aforementioned to fully prepare yourself for the exam.

**Tools Needed:**
- Please bring a laptop to the course

**Faculty:**
*Virginia Lorenzi: Manager, NewYork-Presbyterian Hospital; Associate, Department of Biomedical Informatics, Columbia University*

---

**T5 – Introduction to Version 3, Part 1: Fundamentals**
**Tuesday, October 5 / 9:00 am – 12:30 pm**

Introduction to Version 3 is a rigorous introduction to HL7’s newly emerging standard. Included in the class is:
- General rationale for Version 3
- Explanation of Version 3’s two key concepts: messaging and documents (CDA)
- Overview of the Version 3 publication (ballot and standard)
- Essential concepts and terminology necessary to understand the static models of Version 3 used for both messages and documents

**This Tutorial Will Benefit:**
- Anyone interested in Version 3 implementation or standards development
- Anyone interested in more advanced Version 3 classes on messaging and CDA

**Upon Completion of This Tutorial, Students Will Have Obtained the Following:**
- General understanding of the purpose, function, and format of Version 3 messaging and documents
- Rudimentary knowledge of the Reference Information Model (RIM) with a focus on act, role, act relationship, and participation
- Rudimentary understanding of Version 3 Refined Message Information Models (RMIIMs) and the refinement process
- Knowledge of scope, contents, and organization of the Version 3 publications

**Prerequisites:**
- Experience with healthcare interfacing would be helpful
- Experience or training with systems (development, integration, and/or implementation) required
- It is assumed that the student has some familiarity with the HL7 organization and its processes (balloting procedures, etc.)

**T8 – Introduction to Version 3, Part 2: Messaging**
**Tuesday, October 5 / 1:45 pm – 5:00 pm**

Health Level Seven International is famous as a provider of messaging standards. That is, providing the standard format and interaction specifications required for two disparate healthcare systems to communicate at the application level. This tutorial builds on the morning Version 3 introduction class by focusing on how messaging is addressed with the Version 3 Standard. It reviews and expands on how Version 3 static models are used to represent messages. The Version 3 dynamic model, which is related to the interactions between systems, is introduced. The tutorial explains how message sets are documented within the standard. Finally, it explores how a simple message is wrapped, transmitted, and acknowledged.

Note that the class is based on the latest Version 3 ballot material. The latest Version 3 ballot publication can be accessed and downloaded from http://www.hl7.org/V3ballot/html/welcome/introduction/index.htm. Students may be interested in reviewing or downloading the ballot material prior to class.

**This Tutorial Will Benefit:**
- Anyone who needs to read Version 3 messaging publications
- Anyone interested in Version 3 implementation or standards development
- Anyone interested in more advanced classes on Version 3

**Upon Completion of This Tutorial, Students Will Have Obtained the Following:**
- Rudimentary understanding of Version 3 static and dynamic models and associated terminology as needed to support Version 3 messaging
- General understanding of the following specific dynamic model concepts: storyboard, application role, trigger event, interaction
- General understanding of the following static model components: DMIM, HMD, and message type
- Summary of all functional areas in the current Version 3 ballot publication and their status
- Ability to read a Version 3 functional domain

**Prerequisites:**
- Introduction to Version 3, Part 1: Fundamentals

**Note:** Messaging builds directly on the concepts covered in Part 1 and is designed to be a continuation of the morning class. Most attendees of Messaging also take the Fundamentals class. If you would like to take Messaging without the Intro please contact the instructor.

**Note:** It is assumed that the attendee has basic familiarity with Version 3 including a general understanding of the RIM and how
to interpret the RMIMs. This is covered in the Introduction to Version 3, Part 1 class.

**Tools Needed:**
- Please bring a laptop to the course

**Faculty:**
*Virginia Lorenzi*: Manager, NewYork–Presbyterian Hospital; Associate, Department of Biomedical Informatics, Columbia University

---

**W11 – Version 3 Data Types, Release 2**  
**Wednesday, October 6 / 9:00 am – 12:30 pm**  
**3 CME Credits**

This tutorial provides an in-depth look at Release 2 of the Version 3 data types. It covers both the abstract data types and the implementation (ISO21090).

**This Tutorial Will Benefit:**
Anyone who works with the Version 3 data types: specification designers, analysts, and programmers. Most of the content will apply to the Release 1 data types as well. The data types have been called “a graduate level course in health informatics” – so anyone working in health informatics may find this useful.

**Upon Completion of This Tutorial, Students Will Know:**
- The general scope and architecture of the Version 3 data types
- What is different between Release 1 and Release 2 data types
- How to use the ‘difficult’ data types – CD, ED, PQ, and IVL
- How to avoid the most common implementation mistakes

**Prerequisites:**
- The course will assume that participants have basic O-O, UML and XML skills, and general knowledge of the V3 RIM concepts

**Tools Needed:**
- Please bring a laptop to the course

**Faculty:**
*Grahame Grieve*: Co-Chair, HL7 Modeling and Methodology Work Group; Co-Chair, HL7 Structured Documents Work Group; Facilitator, HL7 Modeling and Methodology Work Group; Consultant, NEHTA; Developmental Manager, Kestral Computing Pty Ltd.

---

**W12 – Introduction to Clinical Document Architecture**  
**Wednesday, October 6 / 9:00 am – 12:30 pm**  
**3 CME Credits**

The Clinical Document Architecture (CDA) is HL7’s specification for standards-based exchange of clinical documents. The CDA is based on the concept of scalable, incremental interoperability and uses Extensible Markup Language (XML), the HL7 Reference Information Model (RIM), and controlled terminology for structure and semantics. This tutorial presents the business case for CDA, its primary design principles, and an overview of the technical specification. The session examines CDA projects in the United States, Europe and Asia/Pacific; the tools available for CDA creation, management and distribution; and current work on CDA implementation guides including the Continuity of Care Document (CCD), History and Physical and Healthcare-Associated Infection Reports.

**This Tutorial Will Benefit:**
- Healthcare providers and exchange network architects
- Considering CDA implementation
- Product managers considering support for CDA
- Public health officials and those with structured information reporting requirements
- Implementers of all kinds beginning to work with CDA

**Prerequisites:**
- Introduction to Version 3, Part 1 recommended

**Tools Needed:**
- Please bring a laptop to the course

**Faculty:**
*Virginia Lorenzi*: Manager, NewYork–Presbyterian Hospital; Associate, Department of Biomedical Informatics, Columbia University

---

**W14 - Clinical Document Architecture Advanced**  
**Wednesday, October 6 / 1:45 pm – 5:00 pm**  
**3 CME Credits**

CDA implementation requires understanding the CDA refinement of the RIM (the CDA RMIM), the Version 3 data types and how these combine with controlled vocabularies to form “clinical statements.” This tutorial reviews the principles of semantic interoperability with CDA, and how these are reflected in the CDA model and implemented in the CDA schema. It reviews the CDA RMIM, schema and data types. In addition, the tutorial gives a detailed walkthrough of samples of CDA documents, coded using clinical statements.

**This Tutorial Will Benefit:**
- Those needing to learn more about CDA, Release 2—its derivation from the RIM and issues relevant to implementing CDA 2.0 solutions
- Implementers needing to work with CDA, and wanting a review of the details

**Upon Completion of This Tutorial, Students Will:**
- Have an overview of CDA’s components
- Have insight into the XML markup required to implement solutions
- Have a better understanding of the issues surrounding semantic interoperability using CDA

**Prerequisites:**
- Completion of the Clinical Document Architecture (CDA) Introductory Tutorial recommended, but not required
- Basic knowledge of the Version 3 standards (as can be obtained from the Introduction to Version 3 tutorial series)

**Tools Needed:**
- Please bring a laptop to the course

**Faculty:**
*Liora Alschuler (Speaker)*: Co-Editor, CDA; Co-Chair, HL7 Structured Documents Work Group; Principal, Alschuler Associates, LLC

*Calvin Beebe (Co-Speaker)*: Integration Consultant, Alschuler Associates, LLC
This tutorial will cover the HL7 Continuity of Care Document (CCD) and the Level 3 entries. It will also cover related CDA specifications, including the ANSI/HITSP specifications and IHE Profiles that make use of CCD. Additionally, the tutorial will also address other HL7 specifications that make use of CCD constructs (e.g., the Health Story Project).

This Tutorial Will Benefit:
- Implementers of the CCD specification or related specifications will benefit by understanding how to read the CCD specification and related specifications

Upon Completion of This Tutorial, Students Will Know:
- How to implement the CCD

Prerequisites:
- CDA Introductory and Advanced tutorials

Faculty:
Keith Boone: Co-Chair, HL7 Structured Documents Work Group; Standards Architect, GE Healthcare

TH23 – HL7 Version 3 RIM Certification Exam

Thursday, October 7 / 5:30 pm – 7:30 pm

This tutorial reviews the Reference Information Model (RIM) of the HL7 Version 3 Standard. The RIM is the basis of the information modeling approach to the Version 3 Standard, and provides for the collection of classes, associations and other forms required to define information exchange in the healthcare context.

Upon Completion of This Tutorial, Students Will Know:
- Better prepared to take the HL7 Version 3 RIM Certification Exam. Note that students are also expected to prepare for the exam by previous study of the HL7 Version 3 RIM

This Tutorial Will Benefit:
- Anyone preparing for the HL7 Version 3 RIM Certification Exam
- Interface analyst specialists and managers who need to understand the technical aspects of HL7 interface

Tools Needed:
- Please bring a laptop to the course

Faculty:
AbdulMalik Shakir: Co-Chair, HL7 Education Work Group; Member, HL7 Architectural review Board; Principal Consultant, Shakir Consulting

Health Level Seven International is pleased to offer certification testing on the HL7 CDA Release 2.0. Certification testing is offered to those participants who want to demonstrate that they have a working knowledge of the CDA Release 2 Standard. Healthcare systems analysts, medical software programmers, and medical informatics faculty and students are all potential candidates.

The knowledge required to pass the exam can be obtained by attending HL7 education sessions, by field work dealing with HL7 CDA based applications, or simply by self-study of the HL7 CDA Release 2 Standard. Please refer to the Study Guide on the HL7 Training and Certification page of the HL7 website for details on the content covered by the test.

Note: Simply taking the courses offered at this meeting will most likely not be sufficient to pass the test. We strongly recommend a combination of the aforementioned to fully prepare yourself for the exam.
M1 – Clinical Decision Support: HL7 Standards & Practical Applications  
Monday, October 4 / 1:45 pm – 5:00 pm  
3 CME Credits

This tutorial will address the general theme of clinical decision support (CDS) in two parts. First, the presenters will provide introductory material regarding CDS that will enable those unfamiliar with it to understand the scientific evidence supporting its use, the technical details regarding implementation and a process for deploying it to meet quality, clinical and administrative goals. Second, the presenters will review the details of the entire portfolio of HL7 CDS standards, ranging from accepted American National Standards Institute (ANSI) standards, draft standards for trial use and work in progress. These will include Arden Syntax, GELLO, Infobutton, Decision Support Services (DSS), Healthcare Quality Measure Format, Order Set standard and Virtual Medical Record (vMR).

This Tutorial Will Benefit:
• Electronic health record system developers, implementers, administrators and users who desire an introduction to the context and use of clinical decision support
• Implementers who desire to learn the details of accepted and nascent HL7 standards for clinical decision support
• HL7 members who want to learn about how clinical decision support standards relate to other HL7 standards

Upon Completion of This Tutorial, Students Will Know:
• The context of clinical decision support: scientific literature supporting its use, system details needed to provide it and a process for employing it in practical situations
• Details of HL7 clinical decision support standards, draft standards and work in progress

Tools Needed:
• Please bring a laptop to the course

Faculty:
Robert A. Jenders, MD, MS, FACP, FACMI (Speaker): Co-Chair, Clinical Decision Support and Arden Syntax Work Groups; Professor, Department of Medicine; University of California, Los Angeles

Guilherme Del Fiol, MD, PhD (Co-Speaker): Co-Chair, Clinical Decision Support Work Group; Assistant Professor, Department of Community and Family Medicine, Division of Clinical Informatics; Duke University

Kensaku Kawamoto, MD, PhD (Co-Speaker): Co-Chair, Clinical Decision Support Work Group; Assistant Professor, Division of Clinical Informatics, Department of Community and Family Medicine, Duke University

M3 – Standards for Interoperability  
Monday, October 4 / 1:45 pm – 5:00 pm  
3 CME Credits

This tutorial provides a survey of the healthcare interoperability standards landscape, pointing out the main features of the terrain and how they link together to perform useful functions. The tutorial has three main parts covering (1) messaging standards such as HL7 Version 2 and Version 3, (2) clinical document standards such as CDA, CCD, CCR and IHE XDS, and (3) terminology standards, such as SNOMED CT and LOINC. It explains how and why these standards were developed and their complementary roles, each best suited to particular tasks.

In the time available, the treatment of each standard is necessarily brief; however, this tutorial will provide an introduction to other more detailed tutorials.

This Tutorial Will Benefit:
• This tutorial is aimed at relative newcomers to health interoperability, who are still unsure about how everything fits together

Upon Completion of This Tutorial, Students Will Know:
• How the main healthcare interoperability standards relate to each other and which is most suited for particular roles
T6 – Introduction to the HL7 Services-Aware Interoperability Framework
Tuesday, October 5 / 9:00 am – 12:30 pm  3 CME Credits

Over the past two years, the HL7 Services-Aware Interoperability Framework (SAIF) has moved from a directive from the CTO to the Architecture Board (ArB) to develop an Enterprise Architecture for HL7 to a set of four frameworks – Information, Behavioral, Governance, and Conformance and Compliance. These frameworks collectively define SAIF, and serve as critical components of the overall HL7 Enterprise Architecture. The SAIF accomplishes this by guiding the content and representation of the various artifacts that explicitly express the aspects of the specification that affect semantic interoperability. This tutorial will cover the history and motivation for the development of SAIF, trace its overarching influences including OMG’s Model-Driven Architecture and the Reference Model for Open Distributed Processing (RM-ODP). Finally, it will provide participants with introduction to the content of, and inter-relationships between, the four frameworks which collectively define SAIF.

This Tutorial Will Benefit:
• All HL7 participants interested in specification development using messages, documents, or services

Upon Completion of This Tutorial, Students Will Know:
• Why HL7 has undertaken the effort of defining SAIF, i.e. the HL7 SAIF Value Proposition
• The relationship of services and Services-Oriented Architectures (SOAs) to SAIF
• The relationship of SAIF to legacy HL7 specifications and activities, particularly messages and documents (CDA)
• The basic structure and function of SAIF, including the content of the Information, Behavioral, Governance, and Enterprise Conformance and Compliance frameworks
• The difference between SAIF and HL7’s Implementation Guide of SAIF
• SAIF-based relationships between the HL7 ArB, Technical Steering Committee, and other HL7 work groups
• Implications of SAIF to HL7 with respect to external groups such as CDISC, OMG, etc.

Prerequisites:
• Awareness of the difficulties and complexities of achieving semantic interoperability using HL7 (or other equivalent) specifications in an increasingly complex international deployment environment

Tools Needed:
• Please bring a laptop to the course

Faculty:

T9 – Implementing SAIF: Experience-to-Date
Tuesday, October 5 / 1:45 pm – 5:00 pm  3 CME Credits

Several HL7 work groups, as well as several external organizations with active HL7 participation, have recently begun implementations of various aspects of SAIF. This tutorial will present the real-world experiences of these efforts, including errors of omission and commission in the basic SAIF content, feedback from HL7 peer reviews, lessons learned regarding artifact content definitions and representation, tooling and infrastructure requirements, etc.

This Tutorial Will Benefit:
• HL7 work group co-chairs
• Members of HL7 work groups involved in artifact development for specific HL7 specifications desiring to understand what SAIF brings to the activity and at what price that contribution is made
• Anyone interested in the adoption of SAIF in their enterprise to enable the development of interoperable software component a more tractable process

Upon Completion of This Tutorial, Students Will Know:
• The difference between SAIF and an Implementation Guide of SAIF (i.e. of its various components)
• The realities, challenges, lessons learned, and benefits realized from implementing SAIF both within and outside of HL7

Prerequisites:
• Knowledge equivalent to the Introduction to SAIF tutorial

Tools Needed:
• Please bring a laptop to the course

Faculty:
Charlie Mead (Speaker): Chair, HL7 Architectural review Board
Ron Parker (Co-Speaker): Vice-Chair, HL7 Architectural review Board

W15 – Introduction to Vocabulary
Wednesday, October 6 / 1:45 pm – 5:00 pm  3 CME Credits

Brief topics include an overview of terminologies and value sets, concept representation in information models and messages, some commonly used vocabularies in healthcare, and Common Terminology Services. Some of these topics are dealt with more deeply and completely in the Advanced Application of Vocabulary and in other tutorials.

This Tutorial Will Benefit:
• Those seeking an overview to terminology, its usage in models and messaging, and specific examples in LOINC, SNOMED and various drug terminologies

Upon Completion of This Tutorial, Students Will Know:
• The reasons behind the need for coded terminology in models and communications
• The basic role and integration of terminologies into HL7 messages and models
• Basic understanding of commonly used clinical terminology systems as applied in HL7
• Modern techniques for accessing and manipulating terminology
Tools Needed:
• Please bring a laptop to the course

Faculty:
Ted Klein, MS: Co-Chair, HL7 Vocabulary Work Group; Klein Consulting, Inc.

TH18 – Security & Risk Analysis
Thursday, October 7 / 9:00 am – 12:30 pm 3 CME Credits

Healthcare today has some of the most diverse needs with regard to sharing of data and the need to securely move patient information among systems. Within HL7 there are multiple verticals that consider messaging, structures, data models, coding and the like. Security is the common thread that connects all of them. Increasingly, healthcare organizations and technology vendors are performing assessments (threat risk assessments, privacy impact assessments, business impact assessments, etc.) to ensure installed healthcare technology will have a positive impact on healthcare delivery. These assessments, often called risk assessments, are even mandated for healthcare delivery organizations in some countries. Unfortunately, key decision makers often have difficulty understanding the relevance of the risks identified, and often overlook them when writing standards.

The Security Risk Assessment Cookbook is intended to enable HL7 domain committees and work groups to publish standards that have taken privacy and security considerations into account. This guide introduces security risk assessments and a process to facilitate completing a security risk assessment for a specific standard. The use of this process will facilitate the identification of gaps in a standard’s baseline security and privacy, allowing the work group to either update the standard on its own or to send a request to the Security Work Group for assistance in filling the gap. This will lead to standards that include privacy and security as part of their base, reducing the need to “bolt” security on later. As a result, HL7 standards will better support patient safety and improved patient outcomes.

This Tutorial Will Benefit:
• HL7 work group members to understand how to consider security when writing standards
• All those using HL7 standards to understand how to use the security considerations

Upon Completion of This Tutorial, Students Will Know:
• How to publish standards that have taken privacy and security considerations into account
• Introduction to security risk assessments and a process to facilitate completing a security risk assessment for a specific standard
• Method of identification of gaps in a standard’s baseline security and privacy
• Method to send a request to the Security Work Group for assistance in filling the gap
• How to interpret the security considerations when implementing systems based on standards

Tools Needed:
• Please bring a laptop to the course

Faculty:
John Moehrke: Co-Chair, HL7 Security Work Group; Principal Engineer, Interoperability and Security, GE Healthcare

TH20 – Personal Health Record (PHR)
Thursday, October 7 / 1:45 pm – 5:00 pm 3 CME Credits

This informative tutorial and review provides an in-depth look at the Personal Health Record System Functional Model (PHR-S FM), the difference between the EHR and the PHR, the relationship between the PHR-S FM and the EHR-S FM, and PHR initiatives around the world.

This Tutorial Will Benefit:
• Those seeking information on the functionality and standardization of personal health records
• Those wishing to implement or evaluate PHR systems, or those who have an interest in understanding how PHR-S functionality relates to broader industry discussions related to personal health records, including consumer empowerment

Upon Completion of This Tutorial, Students Will Know:
• Background and status of the PHR-S Functional Model as an impending ANSI standard
• The structure and content of functional requirements for PHR systems, as shown by the model
• The differences between the PHR-S FM and the EHR-S FM
• Options to use the functional model for conformance and care setting profiles
• Background and status on HL7 and industry projects supporting PHR standards
• How the PHR-S FM supports broader industry concepts related to the personal health records, such as consumer empowerment

Note: This tutorial focuses on functionality, not interoperability. While interoperability is a component of functionality, this tutorial is primarily focused on core functionality, not systems integration. The PHR-S FM is a functional standard, not a records/data standard.

Tools Needed:
• Please bring a laptop to the course

Faculty:
John Ritter: Co-Chair, HL7 Electronic Health Records Work Group; Co-Chair, HL7 International Mentoring Committee; Healthcare Standards Architect, College of American Pathology

F1/F4 – HL7 First-Time Attendees’ Orientation – FREE TUTORIAL
Sunday, October 3 / 4:00 pm – 5:00 pm
Monday, October 4 / 7:00 am – 8:00 am

This is a special orientation session for first-time attendees. It will help you the most out of your first Working Group Meeting experience. The session will consist of a quick meeting “tour” and a question and answer session that will help attendees make informed choices that maximize their time at the meeting. The session will be offered twice during the week—one on Sunday evening and again on Monday morning.

Faculty:
Ken McCaslin: Co-Chair, Technical & Support Services Steering Division—HL7 Technical Steering Committee; Co-Chair, Electronic Services Work Group; Manager, Connectivity Standards, Quest Diagnostics, Inc.
F2/F5 – HL7 Organization and Process Orientation/Introduction – FREE TUTORIAL
Sunday, October 3 / 5:00 pm – 6:00 pm
Tuesday, October 5 / 7:00 am – 8:00 am

This session provides a brief history of the HL7 International organization and answers the question “What is HL7?” An overview of the current work group structure and content domains will be presented. Attendees will learn the formal work group process and protocol and how to effectively participate in the work of the work groups. This tutorial was added at the request of first-time attendees seeking to gain deeper knowledge of the organization and its work processes.

Faculty:
John Quinn: HL7 Chief Technology Officer

F3 – Migration to New Publishing / Modeling Tools (Facilitators Only) – FREE TUTORIAL
Sunday, October 3 / 3:30 pm – 5:00 pm

This tutorial will provide a step-by-step review of the tools that work group contributors and facilitators use to develop and submit content for HL7 Version 3 message standard ballots. The primary focus of this tutorial will be migration to new publishing and modeling tools, including a new static model designer. This will be a “hands-on” session with participants following along by running the tools on their own laptop computers. Instructions on downloading and installing the necessary tools will be provided to students in advance of the tutorial.

www.hl7.org/library/datamodel/V3Tooling/toolsIndextm

This tutorial is intended for experienced modeling facilitators only. It is a condensed version of the tutorial offered on Thursday for a general audience. This offering assumes that participants are familiar with the current tooling, modeling, and publication processes.

This Tutorial Will Benefit:
• Modeling facilitators supporting HL7 work groups, related project teams, and others involved in the documentation of messaging standards, and the creation and documentation of message designs

Upon Completion of This Tutorial, Students Will Know:
• Tooling architecture, including the place and potential uses of the HL7 Model Interchange Format (MIF)
• HL7 repositories - overview of contents and organization (brief)
• New Static Model Designer - including design steps for creation of RIM-based constrained information models
• Conversion of existing Universal Static Model Designs - including layout, verification, and file management

Prerequisites:
• Participants in this tutorial must be experienced in specification, modeling, and publication using prior versions of the Version 3 specification development tools.
• Participants should also be familiar with version control systems
• This tutorial in intended for modeling facilitators

Tools Needed:
• Please bring a laptop to the course

Faculty:
George (Woody) Beeler, PhD (Speaker): Co-Chair, Foundation & Technology Steering Division, HL7 Technical Steering Committee; Co-Chair, Modeling & Methodology and Publishing Work Groups; Principal, Beeler Consulting, LLC

F7 – Newly Elected Co-Chair Training – FREE TUTORIAL
Thursday, October 7 / 7:00 am – 8:00 am

This session is intended for newly elected work group co-chairs. The purpose of the session is to introduce the co-chair responsibilities, review work group and balloting procedures, share tips on managing a work group, provide a framework for common operation among all work groups, and general Q&A session.

Faculty:
Karen Van Hentenryck: HL7 Associate Executive Director

F8 – Migration to New Publishing/ Modeling Tools – FREE TUTORIAL
Thursday, October 7 / 1:45 pm – 5:00 pm

This tutorial will provide a step-by-step review of the tools that work group contributors and facilitators use to develop and submit content for HL7 Version 3 message standard ballots. A focus of this tutorial offering will be migration to new publishing and modeling tools, including a new static model designer. This will be a “hands-on” session with participants following along by running the tools on their own laptop computers. Instructions on downloading and installing the necessary tools will be provided to students in advance of the tutorial.

www.hl7.org/library/datamodel/V3Tooling/toolsIndextm

This Tutorial Will Benefit:
• Individuals who are supporting HL7 work groups, related project teams, and others involved in the documentation of messaging standards, and the creation and documentation of message designs

Upon Completion of This Tutorial, Students Will Know:
• Tooling architecture, including the place and potential uses of the HL7 Model Interchange Format (MIF)
• HL7 repositories – overview of contents and organization (brief)
• RoseTree – Use as a RIM and Vocabulary Browser (brief)
• “Publication Database” – including WYSIWYG editing with XML Spy
• New Static Model Designer – including design steps for creation of RIM-based constrained information models

Prerequisites:
• This tutorial pre-supposes a detailed familiarity with Version 3 terminology. At a minimum, the prospective student should have taken or have previous knowledge of the material addressed in the Introduction to Version 3 tutorials
• Other courses on the Version 3 track, especially the Version 3 Implementation Part 1 class, are suggested as well

Tools Needed:
• Please bring a laptop to the course

Faculty:
George (Woody) Beeler, PhD (Speaker): Co-Chair, Foundation & Technology Steering Division, HL7 Technical Steering Committee; Co-Chair, Modeling & Methodology and Publishing Work Groups; Principal, Beeler Consulting, LLC

Andy Stechishin (Co-Speaker): Co-Chair, HL7 Tooling Work Group; Gordon Point Informatics Ltd.
### TUTORIALS AT A GLANCE

<table>
<thead>
<tr>
<th>Track 1—Version 2.x</th>
<th>Topic</th>
<th>Class ID</th>
<th>Speaker</th>
<th>SUN</th>
<th>MON AM</th>
<th>MON PM</th>
<th>TUE AM</th>
<th>TUE PM</th>
<th>WED AM</th>
<th>WED PM</th>
<th>THU AM</th>
<th>THU PM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction to Version 2, Part 1: Control/Patient Administration</td>
<td>T4 Buitendijk</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Introduction to Version 2, Part 2: Orders and Observations</td>
<td>T7 Henderson</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Version 2 Message Profiles and Conformance</td>
<td>W10 Shakir</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Version 2.5 / 2.6 Control Specialist Certification Review</td>
<td>W13 Henderson</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Version 2.5 / 2.6 Control Specialist Certification Exam</td>
<td>TH21 HL7 Staff</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5:30 -</td>
<td>7:30</td>
</tr>
</tbody>
</table>

### Track 2—Version 3

<table>
<thead>
<tr>
<th>Topic</th>
<th>Class ID</th>
<th>Speaker</th>
<th>SUN</th>
<th>MON AM</th>
<th>MON PM</th>
<th>TUE AM</th>
<th>TUE PM</th>
<th>WED AM</th>
<th>WED PM</th>
<th>THU AM</th>
<th>THU PM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction to Version 3, Part 1: Fundamentals</td>
<td>T5 Lorenzi</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Introduction to Version 3, Part 2: Messaging</td>
<td>T8 Lorenzi</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Version 3 Data Types, Release 2</td>
<td>W11 Grieve</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Introduction to Clinical Document Architecture</td>
<td>W12 Alschuler &amp; Marquard</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clinical Document Architecture Advanced</td>
<td>W14 Dolin &amp; Beebe</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CDA Specialist Certification Exam Review</td>
<td>TH16 Beebe</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Version 3 RIM Certification Exam Review</td>
<td>TH17 Shakir</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Continuity of Care Document</td>
<td>TH19 Boone</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CDA Specialist Certification Exam</td>
<td>TH22 HL7 Staff</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5:30 -</td>
<td>7:30</td>
</tr>
<tr>
<td>Version 3 RIM Certification Exam</td>
<td>TH23 HL7 Staff</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5:30 -</td>
<td>7:30</td>
</tr>
</tbody>
</table>

### Track 3—HL7 Special Topics

<table>
<thead>
<tr>
<th>Topic</th>
<th>Class ID</th>
<th>Speaker</th>
<th>SUN</th>
<th>MON AM</th>
<th>MON PM</th>
<th>TUE AM</th>
<th>TUE PM</th>
<th>WED AM</th>
<th>WED PM</th>
<th>THU AM</th>
<th>THU PM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clinical Decision Support: HL7 Standards &amp; Practical Applications</td>
<td>M1 Jenders &amp; Del Fiol &amp; Kawamoto</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Introduction to Electronic Health Record</td>
<td>M2 James</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Standards for Interoperability</td>
<td>M3 Benson</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Introduction to the HL7 Services-Aware Interoperability Framework</td>
<td>T6 Mead &amp; Parker</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Implementing SAIF: Experience-to-Date</td>
<td>T9 Mead &amp; Parker</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Introduction to Vocabulary</td>
<td>W15 Klein</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Security &amp; Risk Analysis</td>
<td>TH18 Moehrke</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Personal Health Record</td>
<td>TH20 Ritter</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Track 4—Information Forums—FREE TUTORIALS

<table>
<thead>
<tr>
<th>Topic</th>
<th>Class ID</th>
<th>Speaker</th>
<th>SUN</th>
<th>MON AM</th>
<th>MON PM</th>
<th>TUE AM</th>
<th>TUE PM</th>
<th>WED AM</th>
<th>WED PM</th>
<th>THU AM</th>
<th>THU PM</th>
</tr>
</thead>
<tbody>
<tr>
<td>HL7 First-Time Attendees' Orientation</td>
<td>F1/F4 McCaslin</td>
<td></td>
<td>4:00 -</td>
<td>5:00</td>
<td>7:00 -</td>
<td>8:00</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HL7 Organization and Process Orientation/Introduction</td>
<td>F2/F5 Quinn</td>
<td></td>
<td>5:00 -</td>
<td>6:00</td>
<td>7:00 -</td>
<td>8:00</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Migration to New Publishing / Modeling Tools (Facilitators Only)</td>
<td>F3 Beeler &amp; Stechishin</td>
<td>Q4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Newly Elected Co-Chair Training</td>
<td>F7 Van Hentenryck</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>7:00 -</td>
<td>8:00</td>
<td></td>
</tr>
<tr>
<td>Migration to New Publishing / Modeling Tools</td>
<td>F8 Beeler &amp; Stechishin</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**HL7 IS GOING GREEN!** In an effort to be more environmentally conscientious, moving forward, HL7 meetings will be largely paperless. In that regard, we will no longer provide printed tutorial materials on-site. All materials will be emailed to tutorial participants in advance to either print out themselves or load to their laptops.
<table>
<thead>
<tr>
<th>Sunday</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
</tr>
</thead>
<tbody>
<tr>
<td>AM PM</td>
<td>AM PM</td>
<td>AM PM</td>
<td>AM PM</td>
<td>AM PM</td>
<td>AM PM</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Ambassador Presentations</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Anatomic Pathology</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Anesthesiology</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Architectural review Board</strong></td>
<td></td>
<td>Q3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Arden Syntax</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Attachments</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Board of Directors’ Meeting</strong></td>
<td></td>
<td></td>
<td>3:30-9:00</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Child Health</strong></td>
<td>Will not meet in October</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Clinical Context Object Workgroup</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Clinical Decision Support</strong></td>
<td></td>
<td>Q4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Clinical Genomics</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Clinical Interoperability Council</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Clinical Statement</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Co-Chair Information</strong></td>
<td>Lunch &amp; 5:15-7:00</td>
<td>Lunch</td>
<td>7:00-7:45</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Community Based Collaborative Care</strong></td>
<td></td>
<td></td>
<td>Q2</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Education</strong></td>
<td></td>
<td>7:00-8:00</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Electronic Health Records</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Electronic Services</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Emergency Care</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Enterprise Architecture Update</strong></td>
<td></td>
<td></td>
<td></td>
<td>Q4</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Facilitators’ Roundtable (Modeling and Methodology)</strong></td>
<td></td>
<td></td>
<td></td>
<td>5:30-8:00</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Facilitators’ Roundtable (Project Facilitators’)</strong></td>
<td></td>
<td>Lunch</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Facilitators’ Roundtable (Vocabulary)</strong></td>
<td>Q3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Financial Management</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>General Session</strong></td>
<td>8:00-8:45</td>
<td>8:00-8:45</td>
<td>8:00-8:45</td>
<td>No General Session</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Governance and Operations Committee</strong></td>
<td>Q1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Government Projects</strong></td>
<td></td>
<td></td>
<td></td>
<td>Q4</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>GS1 Education Session</strong></td>
<td></td>
<td>7:00-7:45</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>HL7 Activities with Other SDOs</strong></td>
<td>Q4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>HL7 First-Time Attendees’ Orientation</strong></td>
<td>4:00-5:00</td>
<td>7:00-8:00</td>
<td>Lunch</td>
<td>Lunch</td>
<td>Lunch</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>HL7 International Council</strong></td>
<td></td>
<td>Q3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>HL7 Meeting for Nurses</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>HL7 Networking Reception</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>5:15-7:15</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>HL7 Organization &amp; Process Orientation/Introduction</strong></td>
<td>5:00-6:00</td>
<td>7:00-8:00</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>HL7 Research &amp; Innovations Workshop</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Health Care Devices</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Imaging Integration</strong></td>
<td></td>
<td>Q4</td>
<td>Q2</td>
<td>Q3</td>
<td></td>
</tr>
</tbody>
</table>

Q1 = 9:00 – 10:30 am; Q2 = 11:00 – 12:30 pm; Q3 = 1:45 – 3:00 pm; Q4 = 3:30 – 5:00 pm

DISCLAIMER: Meeting times are subject to change.
<table>
<thead>
<tr>
<th>Sunday</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
</tr>
</thead>
<tbody>
<tr>
<td>AM</td>
<td>PM</td>
<td>AM</td>
<td>PM</td>
<td>AM</td>
<td>PM</td>
</tr>
<tr>
<td>Implementable Technology Specifications</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Implementation/Conformance</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Infrastructure &amp; Messaging</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>International Mentoring Committee</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Marketing</td>
<td></td>
<td>Q2</td>
<td>Q3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Modeling &amp; Methodology</td>
<td>Q3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Open Space Meetings (Self Organized, no AV)</td>
<td>6:00 - 8:00</td>
<td>6:00 - 8:00</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Orders &amp; Observations</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Patient Administration</td>
<td></td>
<td>Q3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Patient Care</td>
<td></td>
<td></td>
<td>Q1</td>
<td>Q3</td>
<td></td>
</tr>
<tr>
<td>Patient Safety</td>
<td></td>
<td>Q4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pharmacy</td>
<td></td>
<td></td>
<td>Q4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Plenary Meeting</td>
<td>8:30 - 12:30</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Process Improvement Committee</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Project Services</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Public Health &amp; Emergency Response</td>
<td></td>
<td>Q1</td>
<td></td>
<td></td>
<td>Q3</td>
</tr>
<tr>
<td>Publishing</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Regulated Clinical Research Information Management</td>
<td></td>
<td>Q1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RIM Based Application Architecture</td>
<td>Q4</td>
<td>7:00 - 9:00</td>
<td></td>
<td></td>
<td>Q4</td>
</tr>
<tr>
<td>Security</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Services Oriented Architecture</td>
<td></td>
<td></td>
<td>Q4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Steering Divisions: Domain Experts Foundation &amp; Technology Structure &amp; Semantic Design Technical &amp; Support Services</td>
<td></td>
<td>7:00 - 8:30</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Structured Documents</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TSC Meetings (Note: There is also a meeting scheduled for Saturday, 10/2, 9:00-5:00 pm)</td>
<td>7:00 - 9:00</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Templates</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tooling</td>
<td></td>
<td></td>
<td>7:00 - 9:00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vocabulary</td>
<td></td>
<td></td>
<td>Q3</td>
<td>Q2</td>
<td></td>
</tr>
</tbody>
</table>

Q1 = 9:00 – 10:30 am; Q2 = 11:00 – 12:30 pm; Q3 = 1:45 – 3:00 pm; Q4 = 3:30 – 5:00 pm

DISCLAIMER: Meeting times are subject to change.
REGISTRATION & TUTORIAL HANDOUT HOURS
Sunday 3:00 – 6:00pm Registration
Monday – Tuesday 7:00am – 5:00pm Registration
Wednesday – Thursday 7:30am – 5:00pm Registration
Friday 8:00am – 1:00pm Staff on Hand for Assistance

MEALS AND BREAKS
Monday 7:30 – 8:30am Continental Breakfast
Tuesday – Thursday 7:00 – 8:00am Continental Breakfast
Friday 8:00 – 9:00am Continental Breakfast
Monday 10:20 – 10:50am Morning Break
Tuesday – Friday 10:30 – 11:00am Morning Break
Monday – Friday 12:30 – 1:30pm Lunch
Monday – Thursday 3:00 – 3:30pm Afternoon Break

AMBASSADOR PRESENTATIONS
Monday 1:45 – 5:00pm HL7 and the Final Rule on Initial Set of Standards and Certification Criteria for EHR Technology

ANATOMIC PATHOLOGY (AP)
Monday 1:45 – 5:00pm MEETING
Tuesday 9:00 – 5:00pm MEETING

ANESTHESIOLOGY (GAS)
Monday 1:45 – 5:00pm MEETING
Tuesday 9:00 – 3:00pm MEETING

ARCHITECTURAL REVIEW BOARD (ArB)
Sunday 9:00 – 3:00pm MEETING
Tuesday 11:00 – 12:30pm Joint w/IC
3:30 – 5:00pm MEETING
Wednesday 9:00 – 10:30am Joint w/SOA
Thursday 1:45 – 5:00pm MEETING

ARDEN SYNTAX (AS)
Tuesday 9:00 – 5:00pm MEETING

ATTACHMENTS
Monday 1:45 – 5:00pm MEETING
Tuesday – Thursday 9:00 – 5:00pm MEETING
Friday 9:00 – 12:30pm MEETING

BOARD OF DIRECTORS’ MEETING
Tuesday 3:30 – 9:00pm MEETING

CHILD HEALTH (CH) — Will not meet in October

CLINICAL CONTEXT OBJECT WORKGROUP (CCOW)
Tuesday 9:00 – 5:00pm MEETING

CLINICAL DECISION SUPPORT (CDS)
Monday 3:30 – 5:00pm Joint w/O&O, PC
Wednesday 9:00 – 12:30pm MEETING
1:45 – 3:00pm Joint w/PHER, Pharm, SD
3:30 – 5:00pm MEETING
Thursday 9:00 – 12:30pm MEETING
1:45 – 3:00pm Hosting: Clin Gen
3:30 – 5:00pm MEETING

CLINICAL GENOMICS (CLIN GEN)
Wednesday 9:00 – 5:00pm MEETING
Thursday 9:00 – 10:30am Joint w/O&O
11:00 – 12:30pm Joint w/RCRIM
1:45 – 3:00pm Joint w/CDS

REGISTRATION & TUTORIAL HANDOUT HOURS
Sunday 3:00 – 6:00pm Registration
Monday – Tuesday 7:00am – 5:00pm Registration
Wednesday – Thursday 7:30am – 5:00pm Registration
Friday 8:00am – 1:00pm Staff on Hand for Assistance

MEALS AND BREAKS
Monday 7:30 – 8:30am Continental Breakfast
Tuesday – Thursday 7:00 – 8:00am Continental Breakfast
Friday 8:00 – 9:00am Continental Breakfast
Monday 10:20 – 10:50am Morning Break
Tuesday – Friday 10:30 – 11:00am Morning Break
Monday – Friday 12:30 – 1:30pm Lunch
Monday – Thursday 3:00 – 3:30pm Afternoon Break

AMBASSADOR PRESENTATIONS
Monday 1:45 – 5:00pm HL7 and the Final Rule on Initial Set of Standards and Certification Criteria for EHR Technology

ANATOMIC PATHOLOGY (AP)
Monday 1:45 – 5:00pm MEETING
Tuesday 9:00 – 5:00pm MEETING

ANESTHESIOLOGY (GAS)
Monday 1:45 – 5:00pm MEETING
Tuesday 9:00 – 3:00pm MEETING

ARCHITECTURAL REVIEW BOARD (ArB)
Sunday 9:00 – 3:00pm MEETING
Tuesday 11:00 – 12:30pm Joint w/IC
3:30 – 5:00pm MEETING
Wednesday 9:00 – 10:30am Joint w/SOA
Thursday 1:45 – 5:00pm MEETING

ARDEN SYNTAX (AS)
Tuesday 9:00 – 5:00pm MEETING

ATTACHMENTS
Monday 1:45 – 5:00pm MEETING
Tuesday – Thursday 9:00 – 5:00pm MEETING
Friday 9:00 – 12:30pm MEETING

BOARD OF DIRECTORS’ MEETING
Tuesday 3:30 – 9:00pm MEETING

CHILD HEALTH (CH) — Will not meet in October

CLINICAL CONTEXT OBJECT WORKGROUP (CCOW)
Tuesday 9:00 – 5:00pm MEETING

CLINICAL DECISION SUPPORT (CDS)
Monday 3:30 – 5:00pm Joint w/O&O, PC
Wednesday 9:00 – 12:30pm MEETING
1:45 – 3:00pm Joint w/PHER, Pharm, SD
3:30 – 5:00pm MEETING
Thursday 9:00 – 12:30pm MEETING
1:45 – 3:00pm Hosting: Clin Gen
3:30 – 5:00pm MEETING

CLINICAL GENOMICS (CLIN GEN)
Wednesday 9:00 – 5:00pm MEETING
Thursday 9:00 – 10:30am Joint w/O&O
11:00 – 12:30pm Joint w/RCRIM
1:45 – 3:00pm Joint w/CDS

GENERAL SESSION ROOM
Please plan to attend the Monday morning Plenary Meeting and the General Session Tuesday through Thursday for daily highlights, meeting announcements and changes.

Monday 8:30 – 12:30pm Plenary Meeting
Tuesday 8:00 – 8:45am HL7 CEO, CTO, International Council, TSC Reports and Announcements
Wednesday 8:00 – 8:45am HL7 Annual Business Meeting, Awards Presentations and Announcements
Thursday 8:00 – 8:45am Announcements
Friday NO GENERAL SESSION

NOTE: In compliance with our status as an ANSI-accredited standards development organization, anyone may register to attend HL7 meetings.

Meeting times and locations are subject to change.
<table>
<thead>
<tr>
<th>Time</th>
<th>Event Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sunday 1:45 – 3:00pm</td>
<td>Vocabulary Facilitators' Roundtable</td>
</tr>
<tr>
<td>Wednesday 12:30 – 1:30pm</td>
<td>Project Facilitators' Roundtable</td>
</tr>
<tr>
<td>Thursday 5:30 – 9:00pm</td>
<td>MnM Facilitators' Roundtable</td>
</tr>
<tr>
<td>Monday 1:45 – 5:00pm</td>
<td>MEETING</td>
</tr>
<tr>
<td>Tuesday – Wednesday 9:00 – 5:00pm</td>
<td>MEETING</td>
</tr>
<tr>
<td>Thursday 9:00 – 12:30pm</td>
<td>MEETING</td>
</tr>
<tr>
<td>Tuesday 9:00 – 10:30am</td>
<td>MEETING</td>
</tr>
<tr>
<td>Tuesday 1:45 – 3:00pm</td>
<td>Joint w/EHR, SOA</td>
</tr>
<tr>
<td>Tuesday 3:30 – 5:00pm</td>
<td>MEETING</td>
</tr>
<tr>
<td>Wednesday 9:00 – 10:30am</td>
<td>MEETING</td>
</tr>
<tr>
<td>Wednesday 11:00 – 12:30pm</td>
<td>MEETING</td>
</tr>
<tr>
<td>Thursday 1:45 – 3:00pm</td>
<td>Joint w/RCRIM</td>
</tr>
<tr>
<td>Thursday 3:30 – 5:00pm</td>
<td>Hosting: PHER</td>
</tr>
<tr>
<td>Wednesday 9:00 – 10:30am</td>
<td>Hosting: II</td>
</tr>
<tr>
<td>Thursday 9:00 – 10:30am</td>
<td>Hosting: Clin Gen</td>
</tr>
<tr>
<td>Friday 9:00 – 12:30pm</td>
<td>MEETING</td>
</tr>
<tr>
<td>Monday 1:45 – 5:00pm</td>
<td>MEETING</td>
</tr>
<tr>
<td>Tuesday 9:00 – 10:30am</td>
<td>MEETING</td>
</tr>
<tr>
<td>Wednesday 9:00 – 10:30am</td>
<td>Joint w/SAO</td>
</tr>
<tr>
<td>Wednesday 11:00 – 12:30pm</td>
<td>Joint w/SAO</td>
</tr>
<tr>
<td>Thursday 1:45 – 3:00pm</td>
<td>Joint w/PC, CDS</td>
</tr>
<tr>
<td>Wednesday 9:00 – 10:30am</td>
<td>Hosting: PC, CDS</td>
</tr>
<tr>
<td>Tuesday 9:00 – 10:30am</td>
<td>Hosting: Pharm</td>
</tr>
<tr>
<td>Tuesday 11:00 – 12:30pm</td>
<td>Hosting: Pharm, PS, RCRIM, PHER</td>
</tr>
<tr>
<td>Thursday 1:45 – 5:00pm</td>
<td>MEETING</td>
</tr>
<tr>
<td>Wednesday 9:00 – 10:30am</td>
<td>Hosting: II</td>
</tr>
<tr>
<td>Thursday 9:00 – 10:30am</td>
<td>Hosting: Clin Gen</td>
</tr>
<tr>
<td>Friday 9:00 – 12:30pm</td>
<td>MEETING</td>
</tr>
<tr>
<td>Monday 1:45 – 5:00pm</td>
<td>MEETING</td>
</tr>
<tr>
<td>Tuesday 9:00 – 10:30am</td>
<td>MEETING</td>
</tr>
<tr>
<td>Wednesday 9:00 – 10:30am</td>
<td>Joint w/PC, CDS</td>
</tr>
<tr>
<td>Thursday 1:45 – 3:00pm</td>
<td>Joint w/PC, CIC</td>
</tr>
<tr>
<td>Wednesday 9:00 – 10:30am</td>
<td>Joint w/RCRIM</td>
</tr>
<tr>
<td>Thursday 9:00 – 10:30am</td>
<td>Hosting: Templates, SD</td>
</tr>
<tr>
<td>Friday 11:00 – 12:30pm</td>
<td>Joint w/Templates, Voc, SD</td>
</tr>
<tr>
<td>Monday 1:45 – 5:00pm</td>
<td>MEETING</td>
</tr>
<tr>
<td>Tuesday 9:00 – 10:30am</td>
<td>Joint w/PC, Pharm, RCRIM, PHER</td>
</tr>
<tr>
<td>Tuesday 1:45 – 3:00pm</td>
<td>Joint w/RCRIM</td>
</tr>
<tr>
<td>Tuesday 3:30 – 5:00pm</td>
<td>Hosting: PHER</td>
</tr>
<tr>
<td>Wednesday 9:00 – 5:00pm</td>
<td>MEETING</td>
</tr>
<tr>
<td>Thursday 9:00 – 10:30am</td>
<td>MEETING</td>
</tr>
<tr>
<td>Friday 11:00 – 12:30pm</td>
<td>Joint w/ Templates, Voc, SD</td>
</tr>
<tr>
<td>Monday 1:45 – 5:00pm</td>
<td>MEETING</td>
</tr>
<tr>
<td>Tuesday 9:00 – 10:30am</td>
<td>Joint w/PC, Pharm, RCRIM, PHER</td>
</tr>
<tr>
<td>Tuesday 1:45 – 3:00pm</td>
<td>Joint w/RCRIM</td>
</tr>
<tr>
<td>Tuesday 3:30 – 5:00pm</td>
<td>Hosting: PHER</td>
</tr>
<tr>
<td>Wednesday 9:00 – 5:00pm</td>
<td>MEETING</td>
</tr>
<tr>
<td>Monday 1:45 – 5:00pm</td>
<td>MEETING</td>
</tr>
<tr>
<td>Tuesday 9:00 – 10:30am</td>
<td>Joint w/PC, Pharm, RCRIM, PHER</td>
</tr>
<tr>
<td>Tuesday 1:45 – 3:00pm</td>
<td>Joint w/RCRIM</td>
</tr>
<tr>
<td>Tuesday 3:30 – 5:00pm</td>
<td>Hosting: PHER</td>
</tr>
<tr>
<td>Wednesday 9:00 – 5:00pm</td>
<td>MEETING</td>
</tr>
</tbody>
</table>
MEETINGS

REGISTER ONLINE!
It is quick, easy and convenient…
www.HL7.org
For more information, please contact HL7 at +1 (734) 677-7777 or email: reginfo@HL7.org

DISCLAIMER: Meeting times are subject to change. Please attend the daily General Sessions for room changes, meeting changes, additions and deletion notification. Also check the bulletin boards near the HL7 Registration Desk for updates each day.
“EARLY BIRD” RATE DEADLINE
Advance meeting registration, including payment, is required by September 10, 2010 to receive the discounted rates. Otherwise the full fee structure will apply. Consult the registration form (pages 21-22) for a schedule of meeting fees.

TO REGISTER
Please complete the registration form on pages 21-22 and mail it (along with a check payable to Health Level Seven International in U.S. funds ONLY) to:

Health Level Seven International
3300 Washtenaw Ave., Suite #227
Ann Arbor, MI 48104
USA

If paying by credit card, the registration may be faxed to:
+1 (734) 677-6622.

Online registration is also available via our website (www.HL7.org). For your convenience, you can pay via a credit card directly from the site or print the registration form and mail it along with payment. Advance registrations MUST include payment. No balance dues will be accepted and registrations received without payment will not be processed until the time that payment is received. Registrations received with payment by the Early Bird deadline will receive the Early Bird discount. Registrations where payment is not received by then will require the full registration fee. Advance registrations will be accepted until September 24. After that time, registrations can only be made on-site. All on-site registrations require payment in full at the time of registration.

CANCELLATION POLICY
Prepaid registrants who cancel prior to the Early Bird deadline will receive a full refund minus a $50 processing fee. After that time, no refunds will be made.

TUTORIAL CANCELLATION
The tutorial schedule is subject to change. A tutorial may be cancelled if expected registration numbers are not met. If a tutorial is cancelled, pre-registrants will be notified via email. The registrant may select another tutorial or a full refund of the tutorial fee will be made. However, meeting registration fees will not be refunded.

DRESS
The dress code is casual for all HL7 functions. Layered clothing is advised, as room temperatures vary.

MEALS
Continental breakfasts, refreshment breaks and lunches are included in the meeting registration fee and will be provided for all registered attendees Monday through Friday. Vegetarian and diabetic meals are available upon request. You must register for each day’s lunch on your registration form in order to receive lunch tickets.

HOTEL INFORMATION
HL7’s October Plenary and Working Group Meeting will be held at the Hyatt Regency Cambridge Hotel.

Hyatt Regency Cambridge
575 Memorial Drive
Cambridge, Massachusetts 02139-4896
Phone Direct: +1 (617) 492-1234 or +1 (800) 233-1234
Fax: +1 (617) 491-6906

To reserve your room, the hotel has set up a special website registration process for HL7 attendees. HL7 attendees should log on to https://resweb.passkey.com/go/8f22589a and simply follow the reservation instructions. Please note the group rate rooms are run of the house, which means the room type is based on the best available at check in, not prior to arrival. Room type will be available on the registration form, but it is only a request. Requests will be noted and are based on availability.

Alternatively, you can call +1 (800) 233-1234 for reservations. Be sure to mention Health Level Seven to receive the discounted room rate of $199 per night for single or double occupancy. This rate applies to both regular and government room reservations. These rates will be offered three days prior and three days after the meeting dates, subject to availability of rooms at the time of reservation. Remember, space is limited, so reserve your room early. Discounted room rates are available only on reservations made before September 6, 2010. Room rates are subject to all applicable state and local taxes in effect at time of check in.

GROUND TRANSPORTATION AND PARKING
Taxi fare from the Logan International Airport to the hotel is approximately $35. The charge for parking at the hotel is $35 per day with in and out privileges. There is an airport Subway that makes seven stops along the way, and drops you 1.5 miles from hotel. There is an above ground BU Central Green Line (seven stops), and an Underground Harvard Square or Kendall Square Red Line Subway that costs $1.70. Please visit www.mbta.com for a detailed rail map. Amtrak (Bay Station) is located 3 miles from the hotel. Amtrak also stops at South Station in the Financial District, which is approximately 5 miles from the hotel.

PLEASE BOOK YOUR ROOM AT THE HL7 MEETING HOTEL
HL7 urges all meeting attendees to secure their hotel reservation at the HL7 Working Group Meeting Host Hotel. This hotel has been contracted to provide the best rate and service to our HL7 meeting attendees, including the vast number of meeting rooms that HL7 uses. In order to secure the required meeting space, HL7 has a contractual obligation to fill our sleeping room blocks. If you make reservations at a different hotel, HL7 risks falling short on its obligation, which translates in HL7 paying additional costs (penalties) to the hotel. Should this occur, HL7 will likely be forced to pass these costs onto our attendees through increased meeting registration fees. Therefore, to help avoid such fee increases, we urge you to book your hotel room at our host hotel. Thank you!
1. Contact Information
End of day on September 10, 2010 is the deadline for Early Bird fees. Hotel reservations must be made by the end of the day on September 6, 2010. All advance registrations must be received by the end of the day on September 24, 2010. After this date, registrations can ONLY be made on-site with payment.

First Name __________________________ Last Name __________________________

Title/Position __________________________ Organization __________________________

Address __________________________ City __________________________ State __________________________ Zip __________________________

Country __________________________ Telephone __________________________ Fax __________________________

Email __________________________ Nickname for Badge __________________________

Are you a member within the last 30 days? ____________________________________________________________________________

Emergency Contact __________________________

2. Survey & Information
I am a/an:
☐ Affiliate Chair ☐ Facilitator — Vocabulary ☐ HL7 Board Member ☐ Plenary Speaker
☐ Facilitator — MnM ☐ Facilitator — Steering Division ☐ HL7 Work Group Co-Chair ☐ Tutorial Speaker
☐ Facilitator — Publishing ☐ First-Time WGM Attendee ☐ Past Board Chair

☐ I am a member of an HL7 International Affiliate, employee of an HL7 organizational member or member of another eligible organization (ASC X12, ADA, ASTM, CDISC, CEN/TC 251, CHCF, DICOM, GS1, The Health Story Project, IEEE, IHE, Medisquitos, NAACCR, NCPDP, SNOMED/IHTSDO) and eligible for the member rate. Please list affiliate or organization: ____________________________________________________________________________________________________________________

☐ I am an approved participant in the student program and eligible to receive ☐ Discounted fees ☐ Waived fees (appropriate forms have been completed and sent to HL7).

University attending: ____________________________________________________________________________ Student #: __________________________

Meal Requirements: ☐ Diabetic ☐ Regular ☐ Vegetarian

Please indicate if you plan to attend any of these functions:
☐ International Council (Sunday) ☐ Co-Chair Dinner/Meeting (Monday) ☐ HL7 Networking Reception (Wednesday) ☐ Affiliate Chair or Designated Rep Luncheon (Thursday)

Deadline for Discounted Rates: Payment must be received by September 10, 2010 to qualify for the “Early Bird” rate. The full fee structure applies to all other registrations where payment is received after this date.

Cancellation/Refund Policy: Prepaid registrants who cancel prior to the Early Bird deadline will receive a full refund less a $50 processing fee. After this date, no refunds will be given for ANY reason.

Payment Policy: Registrations for the meeting on-site can only be paid for in US currency.

3. Registration and Tutorial Fees:
You must register for either the ALL WEEK OPTION or the DAILY FEE in addition to any tutorials that you attend.

<table>
<thead>
<tr>
<th></th>
<th>Members</th>
<th>Non-Members</th>
<th>Amount Due</th>
</tr>
</thead>
<tbody>
<tr>
<td>Before 9/10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>☐ $35</td>
<td>☐ $35</td>
<td>☐ $35</td>
<td>☐ $35</td>
</tr>
<tr>
<td>After 9/10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>☐ $770</td>
<td>☐ $1,045</td>
<td>☐ $1,045</td>
<td>☐ $1,350</td>
</tr>
<tr>
<td>Per Day Fees:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>☐ $220/day</td>
<td>☐ $290/day</td>
<td>☐ $290/day</td>
<td>☐ $360/day</td>
</tr>
</tbody>
</table>

Sunday Meeting Fee:
This fee must be included if you will be attending any of the Sunday meetings. This fee is in addition to the Monday-Friday option fee. This fee does not apply to those attending the First-Time Attendants’ Orientation or the HL7 Organization and Process Orientation/Introduction.

Monday – Friday Option:
Please register me for the entire week. Please note that the Monday-Friday Option does not include the cost of tutorials. Please register separately for any tutorials you would like to attend.

Per Day Fees:
Please register me for the following days. Please note daily fees do not include the cost of tutorials. Please register separately for any tutorials you would like to attend.

☐ Monday ☐ Tuesday ☐ Wednesday ☐ Thursday ☐ Friday ____________ days attending x fee: $ ____________

Registrations sent by mail or fax will not be processed until payment is received. The “Early Bird” rate will not apply if payment is received after the cutoff date.

Registration questions: Please e-mail reginfo@HL7.org. You will receive confirmation of registration by email. If you have not received a confirmation of registration within two weeks after registration, please call Mary Ann Boyle at +1 (734) 677-7777. Please bring your confirmation materials to the meeting with you.

Mail/Overnight
Health Level Seven, International
3300 Washtenaw Ave. Suite #227
Ann Arbor, MI 48104 USA
Fax +1 (734) 677-6622
Online www.HL7.org
### Tutorial Fees: Please register me for the following tutorials:

(please note that you must also register for the days you are taking tutorials.)

<table>
<thead>
<tr>
<th>Members</th>
<th>Non-Members</th>
</tr>
</thead>
<tbody>
<tr>
<td>Before</td>
<td>After</td>
</tr>
<tr>
<td>9/10</td>
<td>9/10</td>
</tr>
<tr>
<td></td>
<td>Amount Due</td>
</tr>
</tbody>
</table>

#### CME Credit:

CME credit eligible only to physicians. (Must complete one of the approved tutorials.)

**SUNDAY**

- **Track 4 – Information Forums: First-Time Attendees’ Orientation – FREE TUTORIAL (F1)** — MUST SIGN UP to attend this tutorial (Please check the box.)
- **Track 4 – Information Forums: Organization & Process Orientation/Intro – FREE TUTORIAL (F2)** — MUST SIGN UP to attend this tutorial (Please check the box.)
- **Track 4 – Information Forums: Migration to New Publishing (Facilitators Only) – FREE TUTORIAL (F3)** — MUST SIGN UP to attend this tutorial (Please check the box.)

#### MONDAY

**Morning Sessions**

- **Track 4 – Information Forums: HL7 First-Time Attendees' Orientation – FREE TUTORIAL (F4)** — MUST SIGN UP to attend this tutorial (Please check the box.)

**Afternoon Sessions**

- **Ambassador Presentations – FREE PRESENTATIONS** — MUST SIGN UP to attend this tutorial (Please check the box.)
- **Track 3 – Special Topics: Clinical Decision Support (M1)**
- **Track 3 – Special Topics: Introduction to Electronic Health Record (M2)**
- **Track 3 – Special Topics: Standards for Interoperability (M3)**

#### TUESDAY

**Morning Sessions**

- **Track 4 – Information Forums: Organization and Process Orientation/Intro – FREE TUTORIAL (F5)** — MUST SIGN UP to attend this tutorial (Please check the box.)
- **Track 1 – Version 2.x: Introduction to Version 2, Part 1 (T4)**
- **Track 2 – Version 3: Introduction to Version 3, Part 1 (T5)**
- **Track 3 – Special Topics: Introduction to the Services-Aware Interoperability Framework (T6)**

**Afternoon Sessions**

- **Track 1 – Version 2.x: Introduction to Version 2, Part 2 (T7)**
- **Track 2 – Version 3: Introduction to Version 3, Part 2 (T8)**
- **Track 3 – Special Topics: Implementing SAIF: Experience-to-Date (T9)**

#### WEDNESDAY

**Morning Sessions**

- **Track 2 – Version 3: Version 3 Data Types, Release 2 (W11)**
- **Track 2 – Version 3: Introduction to Clinical Document Architecture (W12)**

**Afternoon Sessions**

- **Track 1 – Version 2.x: Version 2.5 / 2.6 Control Specialist Certification Review (W13)**
- **Track 2 – Version 3: Clinical Document Architecture Advanced (W14)**
- **Track 3 – Special Topics: Introduction to Vocabulary (W15)**

#### THURSDAY

**Morning Sessions**

- **Track 2 – Version 3: CDA Specialist Certification Exam Review (TH16)**
- **Track 2 – Version 3: RIM Certification Exam Review (TH17)**
- **Track 3 – Special Topics: Security & Risk Analysis (TH18)**

**Afternoon Sessions**

- **Track 2 – Version 3: Continuity of Care Document (TH19)**
- **Track 3 – Special Topics: Personal Health Record (TH20)**

**Evening Sessions**

- **Track 1 – Version 2.x: Version 2.5 / 2.6 Control Specialist Certification Exam (TH21)**
- **Track 2 – Version 3: CDA Specialist Certification Exam (TH22)**
- **Track 2 – Version 3: RIM Certification Exam (TH23)**

**Total Amount Due $**

### 4. Payment Information

Payment must be included in order to process your registration. Method of Payment (U.S. Dollars, Drawn on U.S. Bank Only)

- [ ] Check (Please make payable to: Health Level Seven International)
- [ ] Visa
- [ ] Master Card
- [ ] American Express
- [ ] Discover

<table>
<thead>
<tr>
<th>Number:</th>
<th>Expiration Date:</th>
<th>Security Code:</th>
<th>Zip Code:</th>
</tr>
</thead>
</table>

Name on Card: ____________________________  Signature: ____________________________
The following HL7 work groups will conduct co-chair elections at this Working Group Meeting:

<table>
<thead>
<tr>
<th>Work Group</th>
<th># being elected</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anatomic Pathology</td>
<td>1</td>
</tr>
<tr>
<td>Attachments</td>
<td>1</td>
</tr>
<tr>
<td>Clinical Decision Support</td>
<td>1</td>
</tr>
<tr>
<td>Clinical Interoperability Council</td>
<td>1</td>
</tr>
<tr>
<td>Community Based Collaborative Care</td>
<td>1</td>
</tr>
<tr>
<td>Education</td>
<td>1</td>
</tr>
<tr>
<td>Electronic Services</td>
<td>1</td>
</tr>
<tr>
<td>Emergency Care</td>
<td>1</td>
</tr>
<tr>
<td>Financial Management</td>
<td>2</td>
</tr>
<tr>
<td>Health Care Devices</td>
<td>1</td>
</tr>
<tr>
<td>Implementation/Conformance</td>
<td>1</td>
</tr>
<tr>
<td>Implementable Technology Specifications</td>
<td>1</td>
</tr>
<tr>
<td>Infrastructure &amp; Messaging</td>
<td>2</td>
</tr>
<tr>
<td>Modeling &amp; Methodology</td>
<td>1</td>
</tr>
<tr>
<td>Orders &amp; Observations</td>
<td>1</td>
</tr>
<tr>
<td>Patient Safety</td>
<td>1</td>
</tr>
<tr>
<td>Public Health &amp; Emergency Response</td>
<td>2</td>
</tr>
<tr>
<td>RIM Based Application Architecture</td>
<td>1</td>
</tr>
<tr>
<td>Tooling</td>
<td>1</td>
</tr>
<tr>
<td>Vocabulary</td>
<td>1</td>
</tr>
</tbody>
</table>
Cambridge is the spirited, slightly mischievous side of Boston, located just a bridge away on the other side of the Charles River. Packed with international flair and a youthful vitality, Cambridge is a city where counter culture lives, classic culture thrives, and multi-culture is a way of life.

Cambridge offers an exciting multicultural setting where visitors from around the world mingle in the shadow of two of the world’s premier educational institutions: Harvard University and the Massachusetts Institute of Technology (MIT). Teeming with cafes, bookstores, and boutiques, Cambridge is often referred to as “Boston’s Left Bank.”

The Boston area’s premier attraction, the Freedom Trail, is a walking tour through historic Boston, encompassing 16 of the most treasured sites in American history. The Freedom Trail is an actual red line painted on the sidewalks and streets of Boston. Besides guiding a visitor to the historic sites, the Freedom Trail is an excellent way to tour the city as it winds through many diverse neighborhoods.

Visitors to the Boston area are never at a loss for something to do. Boston’s many museums, concert halls, theaters, and nightclubs are always abuzz with activity and excitement. From the internationally acclaimed Museum of Fine Arts, the Museum of Science and the John F. Kennedy Library & Museum, to the famous Boston Symphony Orchestra and Boston Pops, to an abundant local and pre-Broadway theater scene, Boston’s cultural and entertainment options are bountiful.

Known as the “Athens of America,” Boston’s renowned medical and educational institutions have helped to make it an international center of learning and intellectual activity. The metropolitan area’s 35 hospitals and more than 60 colleges and universities are a vast resource.

Copy and photos courtesy of the Cambridge Office of Tourism and the Greater Boston Convention & Visitor’s Bureau.